

ABSTRACT

Device for recovering a carrier including a first signal converter for multiplying a complex carrier caused by a phase error to a digitized passband VSB signal, to provide a baseband VSB signal, a second signal converter for multiplying a complex value of a frequency to the signal from the first signal converter, to convert the baseband VSB signal into an OQAM signal, an error estimating part for generating a signal having carrier phase error information by using a real component and an imaginary component of the OQAM signal, and an oscillator for generating a complex carrier according to the carrier phase error information, thereby making carrier recovery regardless of a pilot component of TV signal, accurately.